

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 12, May 2023

Smart Switch Board

Prof. S. B. Dighe¹, Miss Sneha Datkhile², Miss Anuja Tikande³, Mr. Prakash Jaybhaye⁴, Mr. Abhishek Gaikar⁵

Prof. Dept. of Electronics Engineering, Amrutvahini College of Engineering, Sangamner, India¹ Students, Dept. of Electronics Engineering, Amrutvahini College of Engineering, Sangamner, India^{2,3,4,5}

Abstract: Smart Switch Board is an advanced electrical control panel that incorporates intelligent features and connectivity capabilities to enhance convenience, energy efficiency, and home automation. Like traditional switchboards, which simply enable manual control of electrical devices it also integrates with various smart home technologies and offers remote access and automation functionalities. We have designed a webpage to control our smart switch board all over the internet also in that webpage we implemented a hand recognition model to control switches through web camera.

Keywords: 8-channel relay, two-way switches, a webpage with remote access

REFERENCES

- [1]. Research Paper on Google Assistant Controlled Home Automation By Mr. Kalyan Chenumalla, Mr. Srikanth Gottam, Mr. Prashanth Kusuma, Ms. P. Bhavya Shri - IEEE VEC SB Department of Electronics and Communication Engineering Vaagdevi Engineering College Bollikunta, Warangal, Telangana, 506005, India Date: 24th November 2019.
- [2]. https://www.alldatasheet.com/ for all components data and their information.
- [3]. https://store.arduino.cc/products/arduino-uno-rev3 all information regarding to Arduino and IDE.
- [4]. https://create.arduino.cc/projecthub/electropeak/getting-started-w-nodemcu-esp8266-on-arduino-ide-28184f install nodemcu in arduino IDE.
- [5]. https://blynk.io/
- [6]. https://ifttt.com/
- [7]. By Mr. Vaibhav Malav1, Mr. Raushan Kumar Bhagat2, Mr. Rahul Saini 3, Mr. Udit Mamodiya4Poornima Institute of Engineering and Technology Jaipur, India Electrical Engineering
- [8]. Research Paper for Smart Home Automation System using ESP32 with Blynk, IR Remote & Manual control Relay, IoT Project Anjali Shrivastav Final year UG student B. Tech Madhav Institute of Technology and Science, Gwalior
- [9]. Research Paper for Design and Development of Low Cost IR based Home Automation System Mamatha H., Ranjitha T., Vinutha R., Prajwal K. T., Naveen Kumar T. April 2019

